

ABSTRACT OF THE DISCLOSURE

The laser beam optics for a robot link, wherein a first beam path of a first working laser beam is arranged on the longitudinal axis of the robot link, the first beam path is deflected at an end facing a workpiece into an axis-parallel second beam path, and a third beam path of a second working laser beam is axis-parallel to the first beam path in the robot link, have two optical elements arranged successively in one of the first and second beam paths of the first working laser beam. The two optical elements are transmissive for the first working laser beam in a transmission direction toward a workpiece and are adjusted relative to one another so as to compensate laser beam displacement of the first working laser beam. The second optical element arranged downstream receives the second working laser beam and reflects it toward the workpiece.